



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

PAK CHONG TANG

PHUS 010061

Serial No.: 09/933,555

Group Art Unit: 2838

Filed: August 20, 2001

Examiner: L.W. Luk

Title: OVER-CURRENT PROTECTION CIRCUIT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is an amendment in the above-identified application.


[ X ] No additional fee is required.

[ ] The fee has been calculated as shown below.

CLAIMS AS AMENDED					
	Claims remaining after amendment	Highest number previously paid for	Number extra	Rate	Additional Fee
Total Claims	8 Minus	20 <sup>1</sup> =	X \$18 =		\$
Independent Claims	1 Minus	3 <sup>2</sup> =	X \$86 =		\$
Multiple Dependent Claims, if any. If not previously paid, \$290.					\$
Total Additional fee for this amendment =					\$

<sup>1</sup>If less than 20, enter 20. <sup>2</sup>If less than 3, enter 3.

Please charge any fees which may be required, except the issue fee, or credit any overpayment to Deposit Account No. 14-1270.

  
Edward W. Goodman, Reg. 28,613  
914-333-9611

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on June 17, 2004

Burnett James



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RESPONSE UNDER 37 C.F.R. 1.111

This is in response to the Office Action mailed April 7, 2004, in which the Examiner rejected claim 1 under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 6,008,842 to Nagata; and claim 4 under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,920,474 to Johnson et al. Applicant acknowledges that the Examiner has found claims 2, 3 and 5-8 allowable over the prior art of record.

Applicant traverses the above rejections and offers the following explanation.

The Nagata patent discloses a protective circuit for the CRT and lens, in which, as noted by the Examiner, the beam current for each CRT is detected. Further, according to the Background in Nagata, the detected beam current is compared to a threshold level

(col. 1, lines 36-38). However, in the Nagata circuit, the largest of the detected beam currents is selected and the duration of the detected value is compared to a specified standard value (col. 3, lines 1-10). Further, the Nagata circuit generates a control signal on the basis of the comparison (col. 2, lines 1-3). However, Applicant submits that this control signal is used to control the video contrast and is applied to, for example, a video control circuit 12 (col. 3, lines 15-18).

The circuit of the subject invention, as claimed in claim 1, includes "means for directly detecting the beam current" and "means for comparing the detected beam current with a predefined threshold level". Up to this point, the circuit of the subject invention is substantially similar to that which is disclosed collectively in Nagata. However, the subject invention is for use in a television receiver having a high voltage generating circuit for supplying a beam current to a picture tube, and the circuit of the subject invention includes "means, coupled to the control input of said high voltage generating circuit, for generating a control signal, in dependence on said comparing means, for turning off said high voltage generating circuit."

Applicant submits that Nagata neither discloses or suggests the high voltage generating circuit, and that the control signal should be applied to the high voltage generating circuit for turning off the high voltage generating circuit.

The Johnson et al. patent discloses a power supply for electrostatic devices, which includes a control circuit 14 for sensing the currents and voltages on the output or secondary side of a transformer 16. The control circuit 14 generates a control signal for limiting the power to the primary side of the transformer 16 should the transformer secondary voltage or current exceed a predetermined value, such as when arcing occurs within the precipitator, to limit transformer primary voltage and thereby prevent damage to the transformer and rectifier (col. 4, lines 33-41).

The circuit of the subject invention described above, as claimed in claim 4, now includes "means for preventing said control signal generating means from erroneously generating said control signal due to picture tube arcing and/or random noise."

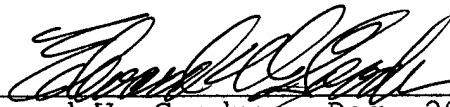
Applicant submits that the control circuit 14 of Johnson et al. so controls the power to the transformer such that arcing does not occur. However, the "means" described in claim 4 does not affect the picture tube arcing or the occurrence of random noise. Rather, the "means" of claim 4 prevent the control signal from being generated erroneously due to picture tube arcing and/or random noise.

In view of the above, Applicant believes that the subject invention, as claimed, is neither anticipated nor rendered obvious

by the prior art, either individually or collectively, and as such,  
is patentable thereover.

Applicant believes that this application, containing  
claims 1-8, is now in condition for allowance and such action is  
respectfully requested.

Respectfully submitted,

by   
Edward W. Goodman, Reg. 28,613  
Attorney  
Tel.: 914-333-9611

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On June 17 2004  
By Burnett James